

What is claimed is:

1. An integrated burn-in test method for testing a multi-chip package, comprising:

loading the multi-chip package formed of multiple kinds of semiconductor devices, to a chamber of a burn-in equipment capable of applying a plurality of scan control clock signals;

uploading an integrated burn-in test program to the burn-in equipment for testing the multi-chip package; and

conducting a test of the multi-chip package using the integrated burn-in test program.

2. The method of claim 1, wherein the semiconductor device is a semiconductor package.

3. The method of claim 1, wherein the semiconductor device is a semiconductor chip.

4. The method of claim 1, wherein the multi-chip package performs a memory function.

5. The method of claim 1, wherein the test is conducted for each semiconductor device of the multi-chip package at a different temperature.

6. The method of claim 1, wherein the multi-chip package is loaded on a burn-in board and the burn-in board is loaded in the chamber of burn-in equipment.

7. The method of claim 1, wherein the multi-chip package is in the form of a TBGA (thin ball grid array).

8. The method of claim 1, wherein the integrated burn-in test program uses a multiplexer selection function for applying a desired test condition during testing of each semiconductor device.

9. The method of claim 1, wherein the integrated burn-in test program has an I/O masking function for blocking some I/O terminals.

10. The method of claim 1, wherein the integrated burn-in test program has a function of setting a burn-in temperature condition for different kinds of semiconductor devices.

11. The method of claim 6, wherein after loading the multi-chip package on the burn-in board to the chamber of the burn-in equipment, a contact test is conducted to examine whether an electrical connection of the burn-in board is correct.

12. The method claimed in claim 1, wherein the burn-in test is a monitoring burn-in test.

13. The method of claim 1, wherein the integrated burn-in test program requires only one time bin sorting based on the burn-in test result.

14. An integrated burn-in test method for testing a multi-chip package, comprising:

loading the multi chip-package including different kinds of semiconductor devices on a burn-in board;

loading the burn-in board into a chamber of a burn-in equipment capable of applying a plurality of scan control clock signals;

uploading an integrated burn-in test program to test different kinds of semiconductor devices to the burn-in equipment;

conducting a contact test for the burn-in board to examine an electrical connection;

conducting a burn-in test for the different kinds of semiconductor devices using a multiplex selection function of the integrated burn-in test program loaded to the burn-in equipment;

ending the burn-in test for different kinds of semiconductor devices; and

bin sorting the multi-chip package based on the burn-in test result.

15. The method of claim 14, wherein when burn-in test for different kinds of semiconductor devices are performed sequentially and the integrated burn-in test program controls the chamber temperature according to a test temperature for an individual semiconductor device.

16. The method of claim 14, wherein each semiconductor device performs a memory function.

17. The method of claim 14, wherein the integrated burn-in test program has an I/O masking function blocking function some I/O terminals.

18. The method of claim 17, wherein each semiconductor device of the multi-chip package has a different number of I/O terminal pins.

19. The method of claim 14, wherein the multi-chip package is in the form of a TBGA (thin ball grid array).

20. The method of claim 14, wherein the burn-in test is a monitoring burn-in test.

21. An integrated burn-in test method for testing a multi-chip package, comprising:

providing the multi-chip package formed of multiple types of semiconductor device; and

testing the multi-chip package with an integrated burn-in test program.

22. The method of claim 21, wherein the testing includes applying a specific test condition during testing of each semiconductor device, wherein the specific test condition is defined by a multiplexer selection function.

23. The method of claim 21, wherein the testing includes blocking some I/O terminals during testing of some semiconductor devices, wherein the blocking is defined by an I/O masking function.

24. The method of claim 21, wherein the testing includes setting a specific burn-in temperature condition for different types of semiconductor devices.

25. The method of claim 21, wherein the testing includes performing a contact test once for all different types of semiconductor devices of the multi-chip package.

26. The method of claim 21, further comprising:
bin sorting once for all different types of semiconductor devices of the multi-chip package based on the testing result.

27. An integrated burn-in test method for testing a multi-chip package, comprising:
providing the multi-chip package formed of multiple types of semiconductor device;
testing the multi-chip package with an integrated burn-in test program, including
performing a contact test once for all different types of semiconductor devices of the multi-chip package,
blocking some I/O terminals during testing of some semiconductor devices, wherein the blocking is defined by an I/O masking function,
setting a specific burn-in temperature condition for different types of semiconductor devices,
conducting a burn-in test for the multiple types of semiconductor devices by applying a specific test condition for each semiconductor device, wherein the specific test condition is defined by a multiplexer selection function; and
bin sorting once for all different types of semiconductor devices of the multi-chip package based on the testing result.